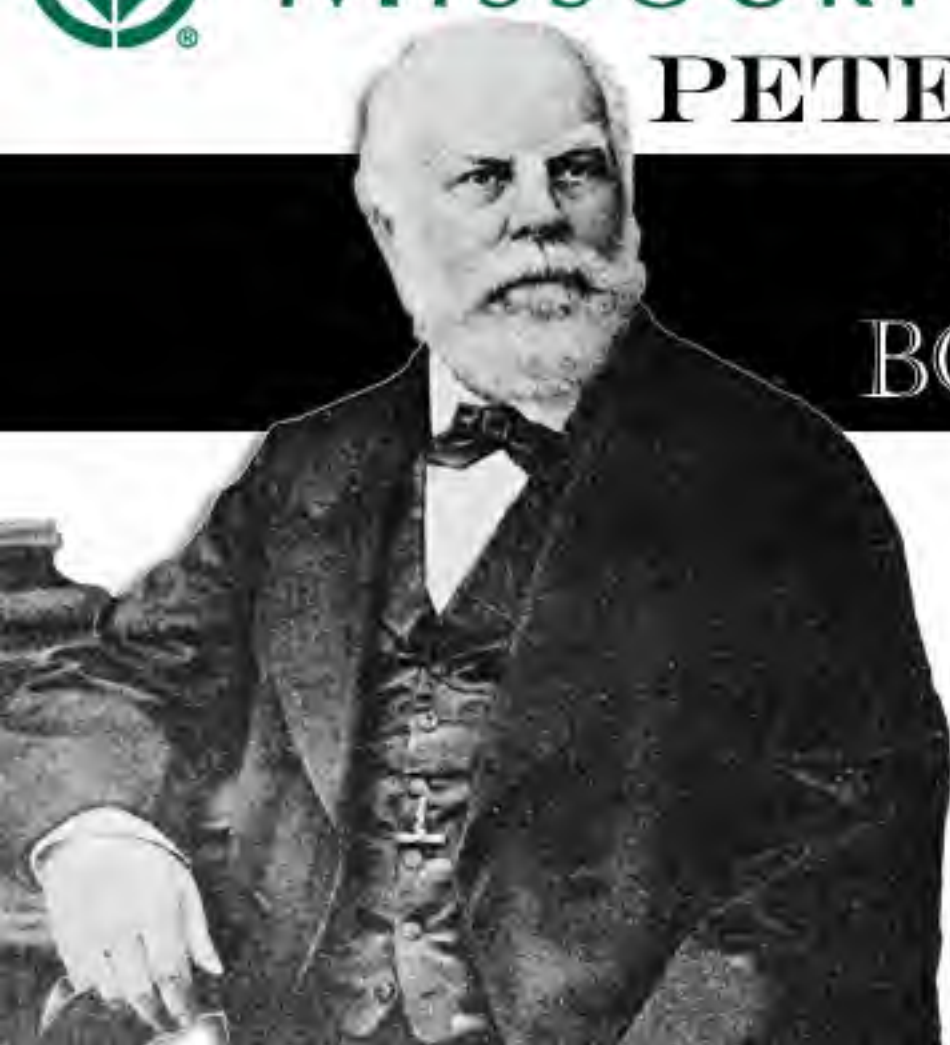




# MISSOURI BOTANICAL GARDEN PETER H. RAVEN



GEORGE ENGELMANN  
BOTANICAL

*Since  
page  
online  
nu*



21

16-6

*E. glaberrima* Klotzsch in Bot.  
Herald!

Sierra Madre N.W. Mexico  
Seemann

496-7



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"Euph. thyrsifolia"

Rottler leg  
1798

in ~~Porto~~ Trauguebar

ex hb. Sprenger in hb. reg. Monac  
is the same as *P. u. lag. in du*

Sem. ex sculptis

one form is quite glabrous  
another with some loose hair  
on the stem. I can see  
no other difference



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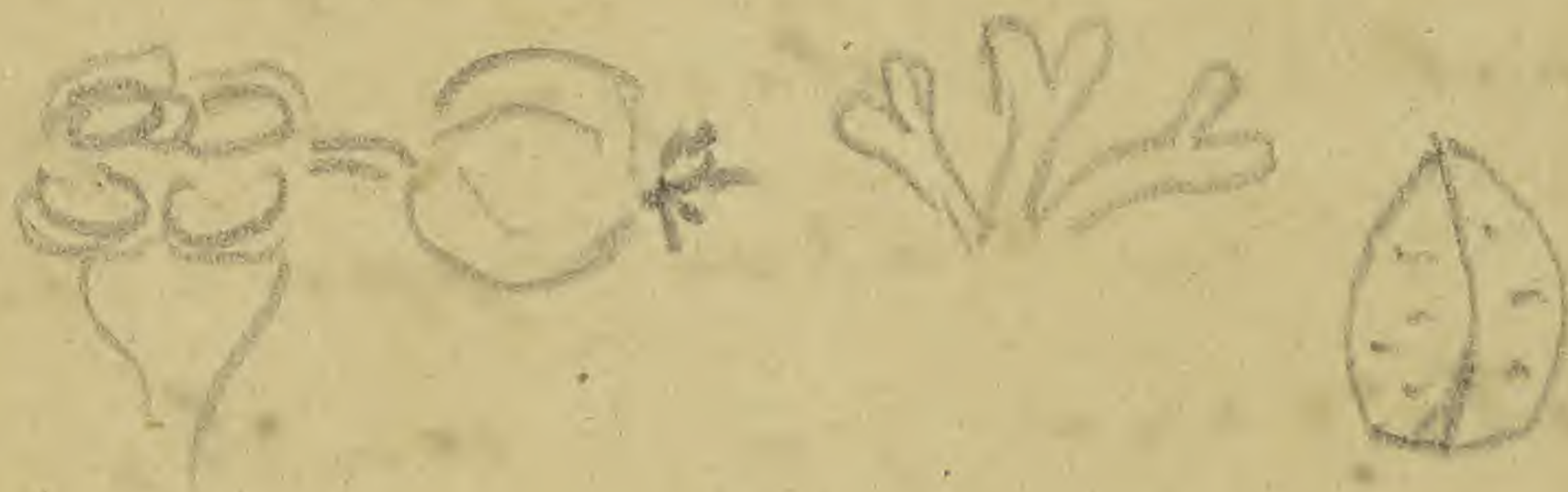


21

1128 *E. nilagirica* Mig. 17

Ind or. Mont Nilagiri

ed. Hohenacker



annua prostrata glaberrima (emarginatis  
 foliis oblongo-ovatis obtusis, valde  
 obliquis subcordatis, serratis  
 stipulis salicinis, multifloris, laevibus,  
 fibrillaribus  
 glomerulis latissimis, femoralibus  
 glandulis punctatis angustis  
 styli brevibus, breviter bifidis  
 capsulis coriis acute angulatis  
 rarinatis  
 seminibus ovatis, acutis, angulis  
 leviter tuberculatis, nodulatis  
 exsculptis s. subglabris laevibus



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*Euph. irregularis* Soudan  
 Cap. l. Sp.  
 can not be distinguished from  
 this — and also approaching  
*E. setigera*, — unite both  
 ?

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240.

Heteromedia

1133. *Euph. heteromedia* Hochstett.

W. itis 1842

Abyssinia

Cauma diffusa n. prostrata, glaberrima  
 foliis e basi obtusis, valde oblique  
 ovatis obtusis, versus apicem  
 acute serratis.

stipulis subulatis serratis,  
 anthodis in glomerulos latentes  
 paucifloros foliosos congestis;  
 involucris campanulatis tubulosis  
 glandulis compressis bilabatis  
 appendicibus minutis dentatis.  
 stylis breviter ad mid. bifidis  
 ovario subaequilongis, stig.  
 subglaberrimis

capsula acutius angulata



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seemly ovate acute angulate  
impresso punctatis (rugosique)  
obovatis

Single sp. before me, with  
sorb inch long; leaves  
3-5 l. long  $\frac{1}{2}$   $\frac{3}{4}$  l. wide,  
involucrum  $\frac{1}{2}$  l. long, seed  
fully 0.6 or more l. long  
deeply punctate, reticulate  
& impressed, sometimes running  
together; color dark gray  
reddish or dark gray



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28. aa

E. Petersii n. sp.  $\frac{30}{11}$

Mexican legum.

Dr. Peters



= Bothe

= Gmelin?



= Hb. v. g.

Peru

glaberrima, ramulis puberulis  
prostrata annua

foliis carnosulis, ovatis  
integris s. subdentatis glabris  
stipulis

glomerulis foliaceis lateralibus  
anthodis campanulatis  
glauco-lanceolatis apice inciso-dentatis

caps. acutiusculis

sem. parvis angulatis sculptis

habit. of a small E. Chanayor  
to which the flowers resemble  
or also ~~resemble~~

Klopf. names it E. callitrichoides  
- Peters, Peru but the seeds are  
quite different and also very thin, else  
over



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rather close to *Granulata*

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28a

$\frac{1}{12}$

Euphorbia Botthei J. Gay  
p. villosa

Aegypt infer.  
Tuberc. leg  
(Hb. Gay)



very similar to the glabra form  
leaves less serrate, sometimes  
entire,  
involucrum & caps. hairy  
subs. little narrower



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cm

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*[Faint, illegible handwriting]*



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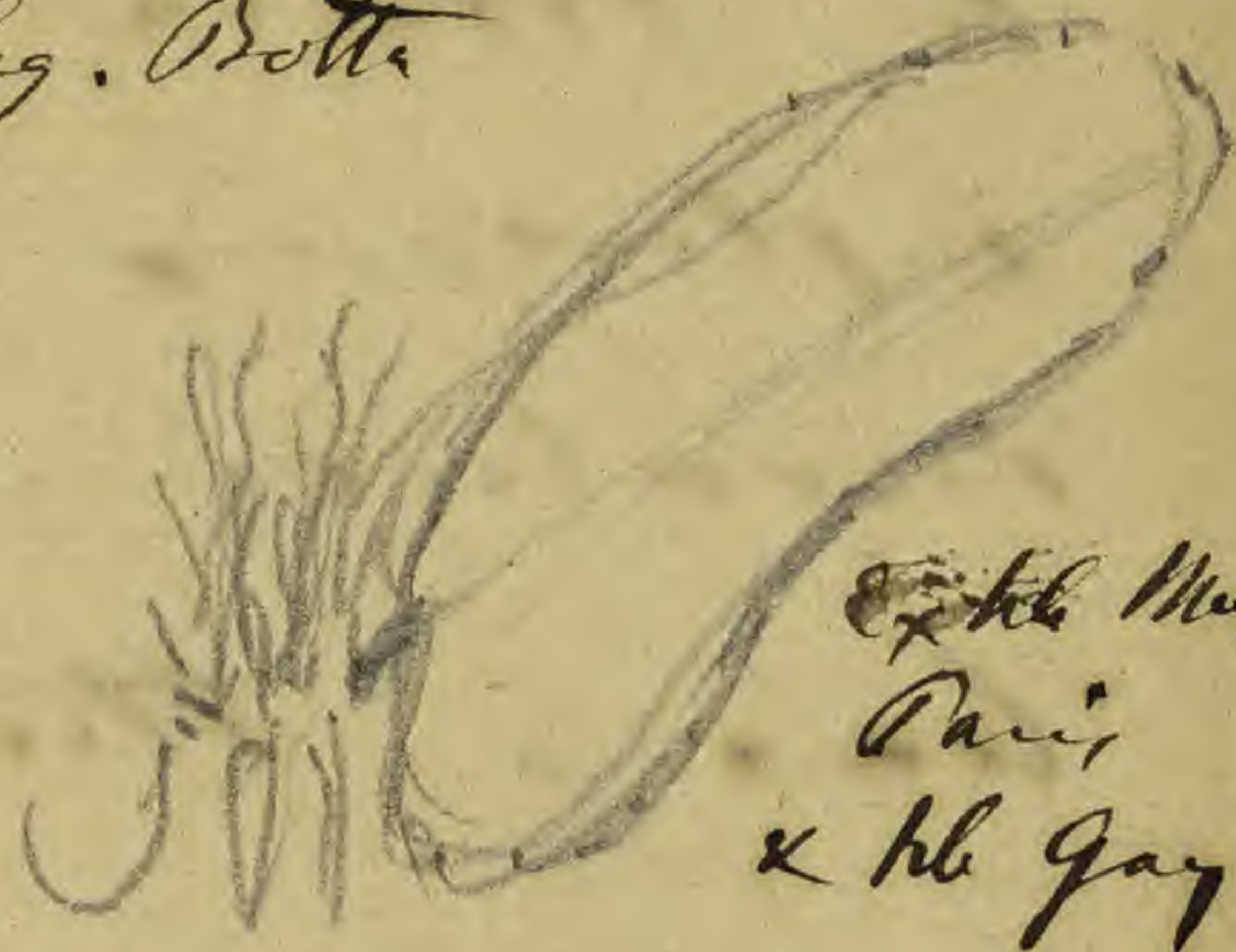
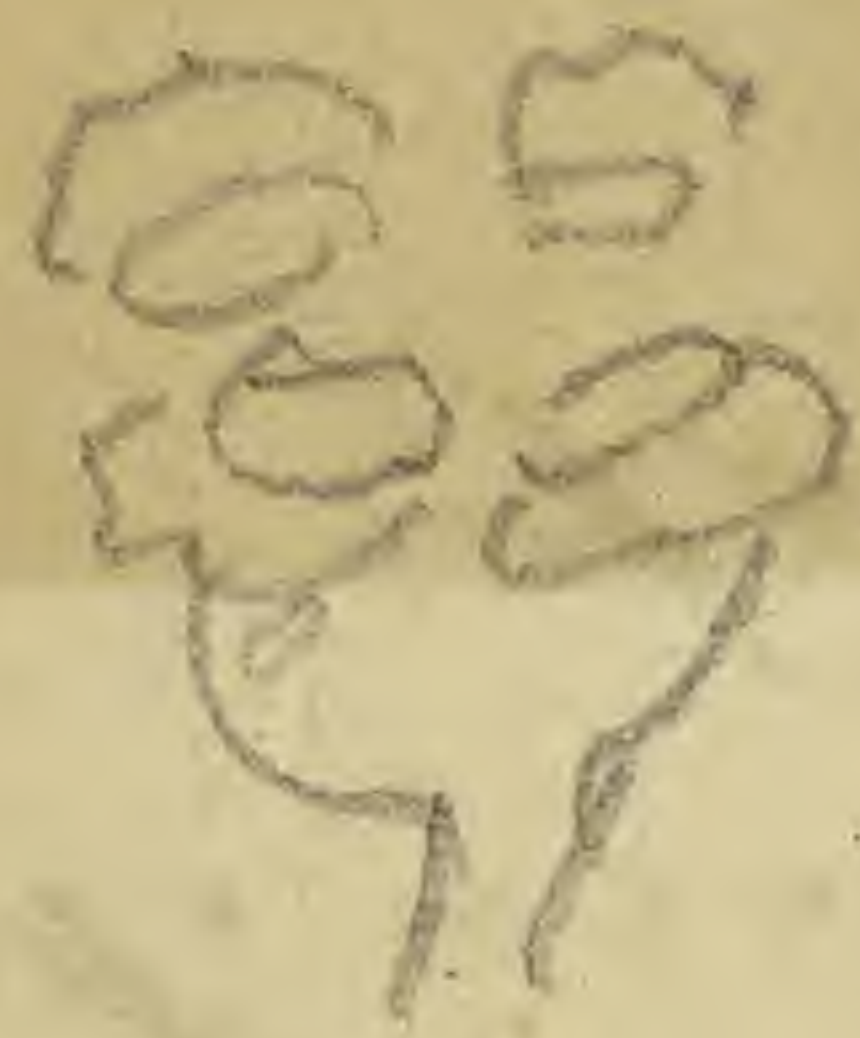
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28a

a form of *granulata*  $\frac{1}{12}$ Euph. Botte J. Gay Miss!  
- hb sueTaifa, Arabia, *x. glaberrima*  
leg. BotteEx hb Mus  
Paris  
x hb Gayanthera diffusum, habitus Euphorb.  
chamaesyce - glaberrimafoliis oblongis obtusiusculis  
basi supra protractis valde obliquis  
subdentatis.stipulis (linearibus) ~~linearibus~~  
puberulis laciniatisantheris alaribus et in glomeris  
laxis foliosis autem

involucris campanulatis

glabris appendiculatis, app. alb.  
dentat

Styl

caps. acuta angulatis  
seu albidis, acutis, acuta  
canaliculis angulatis, faciebus  
undulatis - exsertitis  
ovari

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cm

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form of seed refers this spec  
to Forsk.

inflorescence and form of  
involucres to Chamisso  
leaves those of Peplis

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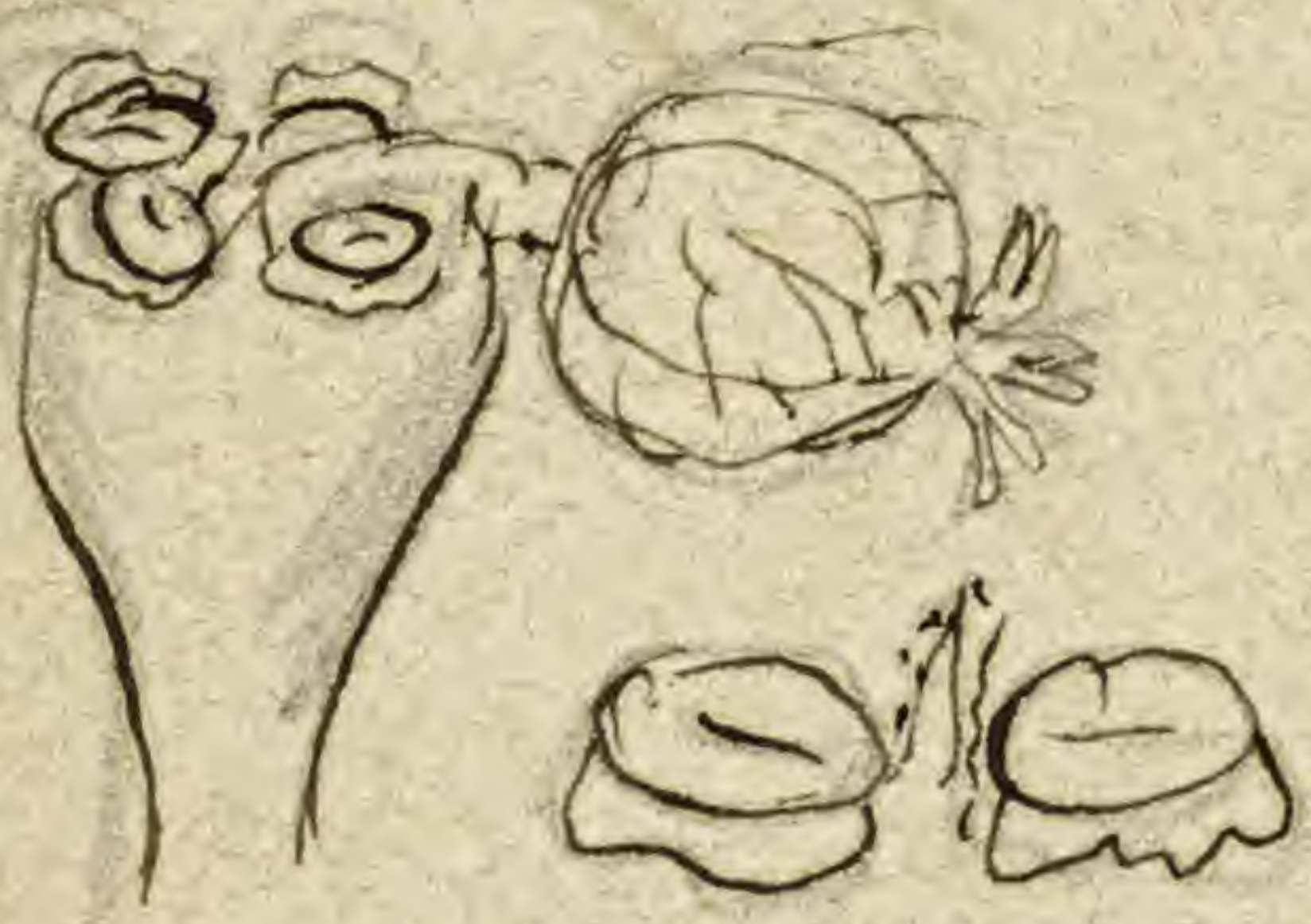


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28.6

Forskali



065

Ceph.

Schimper, 368 Abyssinien 1854

anthera protracta plurimae pubescent

s. glaberrima;

foliis, obovatis-oblongis, obtusis, sub-

dentatis s. rhagimaculatis

stipulis integris (subulatis, laevibus)

pilis.

glomerulis congestis latentes

involucris turbinatis, nudis

s. pilosis,

glomerulis nudis s. anguste appressis

stylis patulis s. divaricatis ad nudis



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bifidis; ovum caeruleum  
 subcylindricum  
 (ap. angulatis pubescentibus  
 sem. acutius angulatis transversis  
 rugoso-culatis punctatis  
 ex sculptis.

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285

Forsk. K. d. l.



0.65

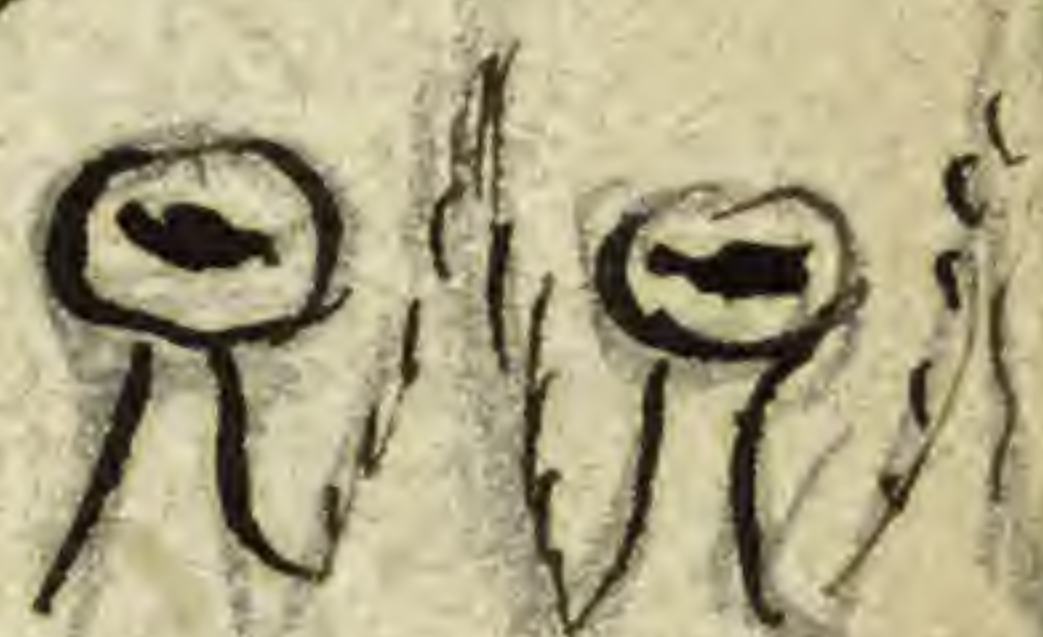


anthodium at the  
place of the gland, lateral!

Sijene, Siber



gland representing  
anthodium  
see above



Avisko, Marsh

" Loph. thyrsifolia Forsk

" Sijene " Siber

anthera diffusa, pubescens (atropurpurea)  
foliis oblongis, basi oblongis, obtusis,  
(interstitiis) parvis dentatis serratisve, s. integerrimis,  
superius nudis  
glomerulis foliis lateralibus  
in volucribus subnatis pubescentibus



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30

*Euph. scandifolia*

06



0.65

*Euph. scandifolia* Jacq. is a  
western plant  
perhaps a hardy var.  
of *E. hypericifolia*

" *Euph. scandifolia* Jacq.

Condore Holzschy

herbaceous, villosa-tomentosa  
foliis ovato oblongis, obtusis  
serratis  
stipulis subulatis villosis induratis  
anthod. vix apertae ramulorum  
pseudaxillares  
involucris campanulatis, tomentosis  
glabulis bilabatis late reflexis  
applanatis truncatis 2-tubis;  
stylis fixis ad medium brevibus  
brevissimis, erectis;  
capsula tomentosa  
seminibus ovatis laevibus  
dorso solum acute angulatis  
sparsim sculpto-punctatis



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6990

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leaves 5-6 l. l. 2-3 $\frac{1}{2}$  lat.  
seed, thick, over 0.6 l. long

*Euph. tomentosa* Pers (Doellinger)  
Senegal Hb. Born & Herb. Bernhart  
are exactly the same plant



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0.65 - 0.7

Sonnam  
H. Schlegel

255 Euph. thymifolia Forsk. an Lin?

Ischedda, ~~Agg.~~ Arabia  
on the red sea A. Rhinop

perennans e radice peripetiolari, lignosa  
 caudiceque rufa lignosa;  
 procumbens, villosa-pubescent  
 foliis e basi obtuse vix oblique  
 ovato-oblongis, obtusis, acute  
 serrulatis.  
 stipulis subulatis siliosis, minutis  
 anthodis versus ~~radicem~~ apicem pseudo-  
 axillaribus, vix glomeratis  
 involucri campanulatis villosis  
 glandulis magnis bilabiatis compressis  
 appendiculis latis truncatis dentatis  
 lobis triangularibus villosulis;  
~~stylis~~ pedicello feminine nuda  
 ovario capsulaque villosissima  
 stylis erecto-petulis brevibus  
 apice bilobis; seminibus ovatis



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*majusculis obtusius angulatis  
pinnatis serrulatis, cordatisque.*

"*Euph. hirta* L." Fenzl from Senegal,  
Kotschy, is the same plant, but  
with much narrower appendages -  
and yellow female pedicell

Stems 6 inches or more in length, gray,  
and the young white villous;  
leaves 3-5 l. long 2-3 broad,  
serrately but acutely serrate -  
seeds 0.6-0.7 l. long, almost round,  
only on the back sharp angled.

Near *E. Chamaejasme* in style, shape & apph  
of involucre but 4 sharply serrate,  
shape of leaves different, and seed  
also different, though similar in shape  
& colour.



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0.5-0.55

x 0.4

Egypt  
Creta  
Doppe

*C. canescens*  
*C. canescens*



*Euph. Chamaesyce glaberrima Montpellier*  
*glandulis cyathiformibus prostratis*  
*conduplicatis*

*C. Chamaesyce* <sup>arvensis</sup> *arvensis* e basi quasi  
ventro-latis pleuricis;

foliis obovatis vix oblongis cum  
apice dentatis, crenatis s. integris  
stipulis (s. bulbatis, stipularibus)

involucris subulatis vix appretatis

hemisphaericis; glandulis <sup>latulitis</sup> magnis oculis

pluribus s. cyathiformibus plus minus



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appiculatis;


Stylis ~~dentatis~~ petulis ovario  
multo brevioribus superis bilobis  
capsula acuta angulata, rugulosa  
seminibus ovatis crassis 0.5-0.6  
x 0.4 lin. ruguloso tuberculatis  
angulis laevibus s. verrucatis.

$\alpha$  glaberrima.

$\beta$ . *prolescula*

$\gamma$ . *canescens* caps. pilosis  
etc

A. species from *Lecythis* has petules hairs  
all over, large dentate appendages,  
sharply serrate leaves

*E. Canariensis* from Palestine, Marsh  
has seeds very little tuberculate,  
almost smoothish!  0.6  
no other difference!  
leaves more cordate & base

*E. tigris* Boiss & Nor is a small leaved  
*E. canariensis*, with verrucose tuberculate seed  
tubercles running into cross ribs together, &  
edges of seed often verrucate

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31.8.

*E. Chamaesyce* ~~infloriferum~~  
~~obovatum~~

0.6 x 0.4

Puph. Chamaesyce, not to  
be distinguished from small  
leaved form, of the common  
Chamaesyce — but involucre  
tuberculate, glands imbriculate;  
seed very rough — same as  
in many forms of Chamaesyce  
but darkish! almost black

small  
leaves oblique obovate almost  
entire, with the stem hairy.

Hb. S. Braun. Shown from ?  
perhaps that at Wien ?  
Study ?



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6993

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*[Faint, illegible handwritten text in cursive script, likely bleed-through from the reverse side of the page.]*



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32

Gregg 792

*E. pilosula*

caps. glabra, obtusangul

sem ovata ant angulat

indistincta tuberculata

transvers rugosa

0.4 x 0.3 cm

mutat



perianth? Diffuse stipitate  
 ovula infra glabrat ~~super~~ puberula  
 pl. a basi obliq. subovata ovata -  
 orbiculata angusta serratis <sup>utroque</sup> pilosis  
 dem nudatis  
 stip lanceolatis + pubuletis  
 glomeratis terminalibus appressatis  
 subvol. laev. gl 3-4 app.  
 orbiculat - styl. ultra med. bifidis



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~~Ad. 1857~~

6994

25

*Suberectis*

caps — see above  
sem —



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Coulter 1446, Jalapa  
fol. integrissimis here?



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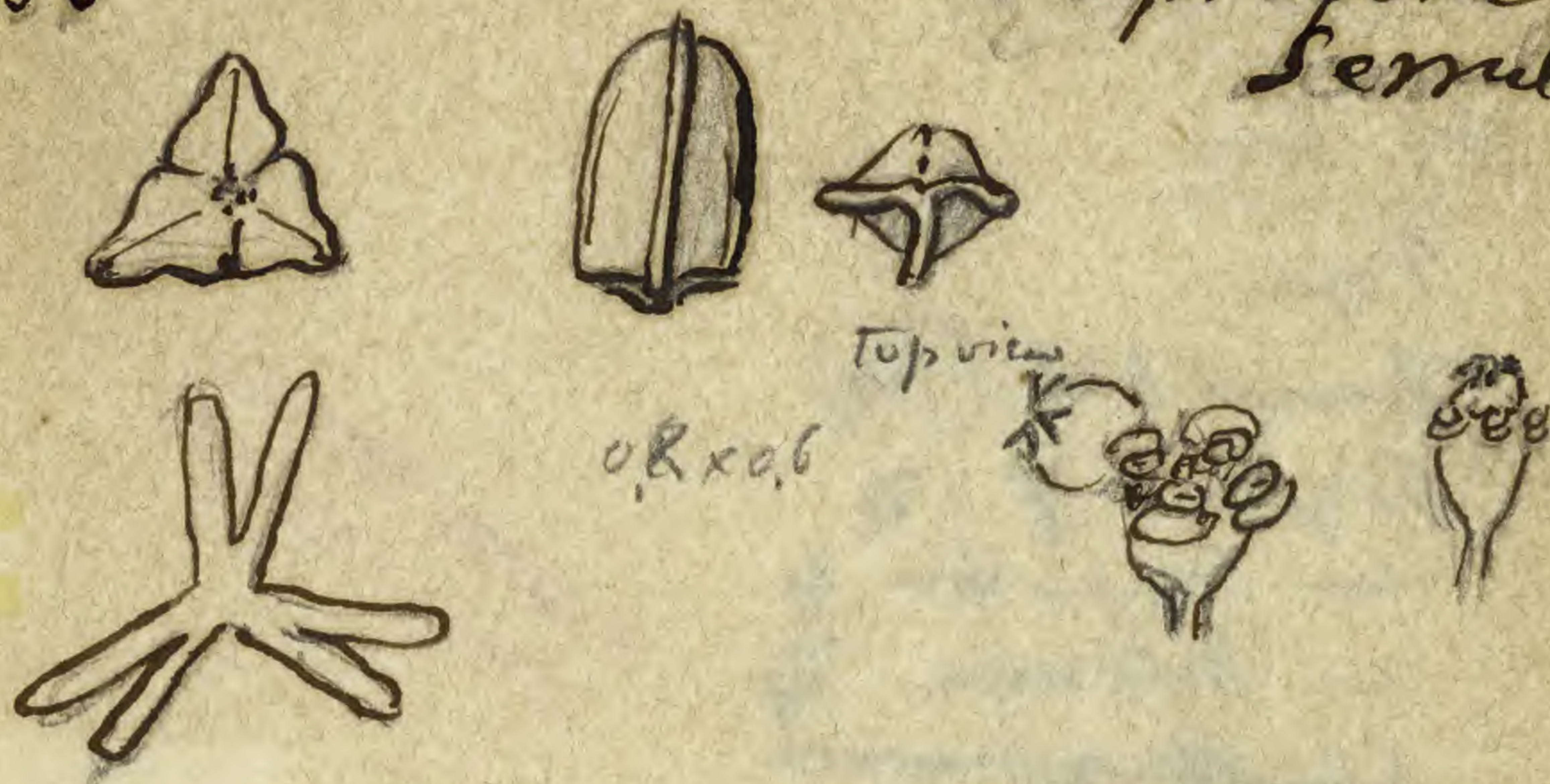
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*Serrula patula* s. *diversa*  
 caule patente piloso  
 folia breviter oblique oblonga  
 obtusiuscula ~~subcordata~~  
 oblongis vel spatulatis <sup>obtusius</sup> argenteis  
 serratis subtus pilosis saepe  
 subundatis 2-5" x 1-3"  
 stipulis lanceolatis breviter fimbriatis  
 glomeratis  
 appendicibus angustatis transverse  
 crenatis s. integris lobis lanceolatis  
 ovatis glabris  
 stylis breviter patentibus fere ad basin  
 bifidis  
 capsulae oblongae  
 1-2" longae 0.8 x 0.6 - angustae angulatis  
 leviter



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69.95

Hb. Torr

Pope

Fremont 428. (164)

Bigelow 7 2

— Copper mine 2

— Sonoma 2

~~Schott 2~~ mine

Hb. E

Wright (19) 2 1850

Fremont 45-47

Gregg 520 2 56

Hb. Gr

(~~Thurber 407~~)?

Gregg 2

— Owensite

Wright

— 559. 65 (414)

— 1850 (~~44~~) (55) 2

Fremont

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